Rebuild Kit Instructions

2–WAY DUAL SOLENOID VALVE
BRASS CONSTRUCTION — WATER SERVICE
3/4 NPT — 3/4″&1/8″ ORIFICE

REBUILD KIT No. 518018 & 61301601738
Form No.V7439

NOTICE: See separate solenoid installation and maintenance instructions for information on: Wiring, Solenoid Temperature, Cause of Improper Operation, Coil or Solenoid Replacement.

MAINTENANCE

⚠ WARNING: To prevent the possibility of death, serious injury or property damage, turn off electrical power, depressurize valve, and vent fluid to a safe area before servicing the valve.

Note: It is not necessary to remove the valve from the pipeline for repairs.

INSTALLATION OF REBUILD KIT

Valve Disassembly (Refer to Figure 1)

1. Disassemble valve in an orderly fashion using exploded view for identification and placement of parts.
2. Remove solenoids A and B, see separate instructions.
3. From solenoid A end, unscrew solenoid base sub–assembly form valve bonnet. Then remove core spring, core assembly and solenoid base gasket from valve.
4. Using a suitable pair of pliers, pull manual operator stem pin from manual operator stem assembly. Then remove manual operator stem assembly with stem spring and two stem gaskets.
5. Remove bonnet screws (4), valve bonnet, diaphragm spring, diaphragm assembly and body gasket from valve body.
6. From solenoid B end ,unscrew plugnut/core tube sub–assembly using special bonnet wrench supplied in rebuild kit. Remove bonnet gasket, core assembly and core spring.
7. All parts are now accessible for cleaning or replacement. If parts are worn or damaged, install a complete rebuild kit.

⚠ CAUTION: To ensure proper valve operation, install all parts supplied in rebuild kit. Do not mix old and new parts.

Valve Reassembly

1. Reassemble valve using exploded view for identification and placement parts.
2. Lubricate all gaskets with DOW CORNING® 200 Fluid lubricant or an equivalent high–grade silicone fluid.
3. Replace body gasket and diaphragm assembly. Locate bleed hole in diaphragm assembly approximately 45° from valve outlet.
4. Position diaphragm spring on diaphragm assembly. Be sure small end of diaphragm spring seats in cup of diaphragm assembly.
5. Install manual operator stem gaskets (2) and stem spring on stem assembly. Then install stem assembly into valve bonnet and replace stem pin. Tap stem pin to be sure it is securely installed. Rotate stem assembly to be sure there is no misalignment or binding.
6. Position valve bonnet with manual operator on valve body. Manual operator may be located at 90° increments.
7. Hand thread bonnet screws (4) into valve body as far as possible, then torque evenly in a crisscross manner to 95 ± 10 in–lbs [10,7 ± 1, 1 Nm].
8. Install solenoid base gasket in valve bonnet at solenoid A end.
9. Install wide end of core spring in core assembly first, closed end protrudes from top of core assembly.
10. Install core assembly with core spring into solenoid base sub–assembly. Hand thread solenoid base sub–assembly with core assembly and core spring into valve body. Then torque solenoid base sub–assembly to 175 ± 25 in–lbs [19,8 ± 2,8 Nm].
11. Install bonnet gasket in valve body at solenoid B end.
12. Using special bonnet wrench supplied in rebuild kit, install plugnut/core tube sub–assembly into valve body. Torque plugnut/core tube sub–assembly to 90 ± 10 in–lbs [10,2 ± 1,1 Nm].
13. Install solenoids A and B, see separate instructions.

⚠ WARNING: To prevent the possibility of death, serious injury or property damage, check valve for proper operation before returning to service. Also perform internal seat and external leakage tests with a nonhazardous, noncombustible fluid.

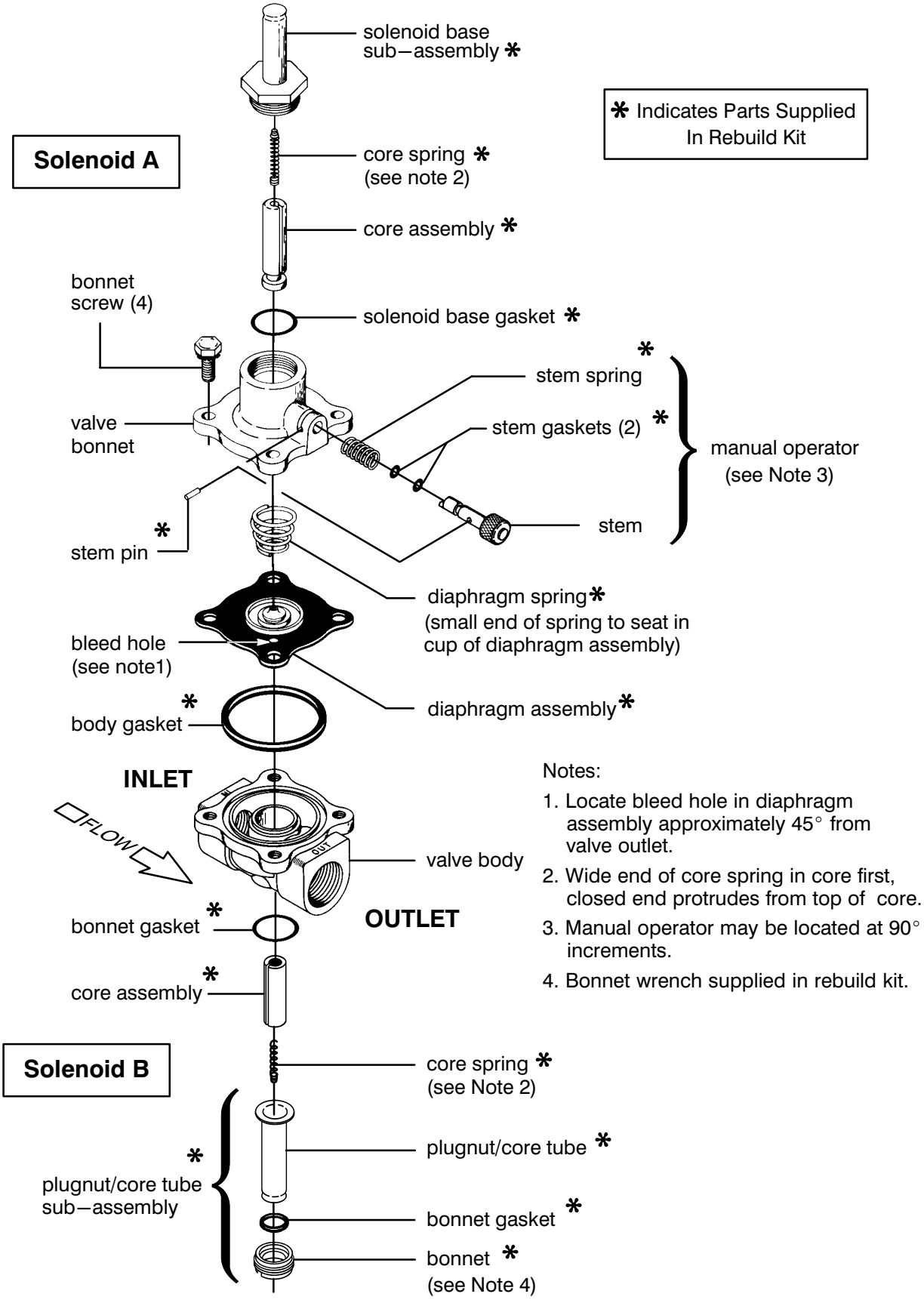
14. Restore line pressure and electrical power supply to valve.
15. After maintenance is completed, operate the valve a few times to be sure of proper operation. A metallic *click* indicates the solenoid is operating.

ORDERING INFORMATION

FOR REBUILD KITS

Parts marked with an asterisk (*) in the exploded view are supplied in Rebuild Kits. When Ordering Rebuild Kits for valves, order the Rebuild Kit number stamped on the valve nameplate. If the number of the kit is not visible, order by indicating the number of kits required, and the Catalog Number and Serial Number of the valve(s) for which they are intended.

1777 East Henrietta Road, Rochester New York 14623–3133 Tel:716–475–1400 Fax:716–272–5297



Notes:

1. Locate bleed hole in diaphragm assembly approximately 45° from valve outlet.
2. Wide end of core spring in core first, closed end protrudes from top of core.
3. Manual operator may be located at 90° increments.
4. Bonnet wrench supplied in rebuild kit.

Figure 1. Valve without solenoids.

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